Title:

A System To Produce Sugar From Plant Material

Inventor:

David O. Sanders

**Application Number:** 

Filing Date:

October 15, 2004

Group Art Unit:

**Examiner Name:** 

Attorney Docket Number:

SandersUSNPSugar

#### CERTIFICATE OF EXPRESS MAILING

- I, Craig R. Miles, hereby certify to the truth of the following items:
- 1. I am an employee of CR MILES, P.C., 204 Walnut Street, Suite J, Fort Collins, CO 80524.
- 2. I have this day deposited the attached Power of Attorney Inventor ( page) with the United States Postal Service as "Express Mail" for mailing to:

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dated this 15 day of October, 2004.

Title:

A System To Produce Sugar From Plant Material

Inventor:

David O. Sanders

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- 1. I am an employee of CR MILES, P.C., 204 Walnut Street, Suite J, Fort Collins, CO 80524.
- 2. I have this day deposited the attached specification entitled "A System To Produce Sugar From Plant Material" (69 pages) with the United States Postal Service as "Express Mail" for mailing to:

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dated this 45 day of October, 2004.

Title:

A System To Produce Sugar From Plant Material

Inventor:

David O. Sanders

**Application Number:** 

Filing Date:

October 15, 2004

Group Art Unit:

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Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dated this 15 day of October, 2004.

Title:

A System To Produce Sugar From Plant Material

Inventor:

David O. Sanders

**Application Number:** 

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- 1. I am an employee of CR MILES, P.C., 204 Walnut Street, Suite J, Fort Collins, CO 80524.
- 2. I have this day deposited the attached firm Letter of Transmittal (<u>3</u> pages) with the United States Postal Service as "Express Mail" for mailing to:

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dated this 15 day of October, 2004.

Title:

A System To Produce Sugar From Plant Material

Inventor:

David O. Sanders

Application Number:

Filing Date:

October 15, 2004

Group Art Unit:

Examiner Name:

Attorney Docket Number:

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- 1. I am an employee of CR MILES, P.C., 204 Walnut Street, Suite J, Fort Collins, CO 80524.
- 2. I have this day deposited the attached Assignment of David O. Sanders to CO2 Solutions, LLC ( pages) along with a Recordation Cover Sheet ( page) with the United States Postal Service as "Express Mail" for mailing to:

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dated this <u>15</u> day of October, 2004.

Title:

A System To Produce Sugar From Plant Material

Inventor:

David O. Sanders

**Application Number:** 

Filing Date:

October 15, 2004

Group Art Unit:

**Examiner Name:** 

Attorney Docket Number:

SandersUSNPSugar

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- 1. I am an employee of CR MILES, P.C., 204 Walnut Street, Suite J, Fort Collins, CO 80524.
- 2. I have this day deposited the attached Application Data Sheet (3\_ pages) with the United States Postal Service as "Express Mail" for mailing to:

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dated this 15 day of October, 2004.

Title:

A System To Produce Sugar From Plant Material

Inventor:

David O. Sanders

Application Number:

Filing Date:

October 15, 2004

Group Art Unit:

Examiner Name:

Attorney Docket Number:

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- 1. I am an employee of CR MILES, P.C., 204 Walnut Street, Suite J, Fort Collins, CO 80524.
- 2. I have this day deposited the attached Power of Attorney of CO2 Solutions, LLC ( / page) with the United States Postal Service as "Express Mail" for mailing to:

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dated this 15 day of October, 2004.

Title:

A System To Produce Sugar From Plant Material

Inventor:

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- 1. I am an employee of CR MILES, P.C., 204 Walnut Street, Suite J, Fort Collins, CO 80524.
- 2. I have this day deposited the attached Declaration For Patent Application pages) with the United States Postal Service as "Express Mail" for mailing to:

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dated this 15 day of October, 2004.

Title:

A System To Produce Sugar From Plant Material

Inventor:

David O. Sanders

**Application Number:** 

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- 1. I am an employee of CR MILES, P.C., 204 Walnut Street, Suite J, Fort Collins, CO 80524.
- 2. I have this day deposited the attached drawing sheets ( // sheets) with the United States Postal Service as "Express Mail" for mailing to:

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dated this 15 day of October, 2004.

Title:

A System To Produce Sugar From Plant Material

Inventor:

David O. Sanders

**Application Number:** 

Filing Date:

October 15, 2004

Group Art Unit:

**Examiner Name:** 

Attorney Docket Number:

SandersUSNPSugar

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I, Craig R. Miles, hereby certify to the truth of the following items:

- 1. I am an employee of CR MILES, P.C., 204 Walnut Street, Suite J, Fort Collins, CO 80524.
- 2. I have this day deposited the attached Preliminary Amendment ( / pages) with the United States Postal Service as "Express Mail" for mailing to:

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dated this 15 day of October, 2004.

Title:

A System To Produce Sugar From Plant Material

Inventor:

David O. Sanders

Application Number:

Filing Date:

October 15, 2004

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Examiner Name:

Attorney Docket Number:

SandersUSNPSugar

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- 1. I am an employee of CR MILES, P.C., 204 Walnut Street, Suite J, Fort Collins, CO 80524.
- 2. I have this day deposited the attached copy of the Information Disclosure Citation (\_\_\_pages) along with copies of references with the United States Postal Service as "Express Mail" for mailing to:

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dated this 15 day of October, 2004.



Title:	A System To Produce Sugar From Plant Material
Inventor:	David O. Sanders
Application Number:	
Filing Date:	October 15, 2004
Group Art Unit:	
Examiner Name:	
Attorney Docket Number:	SandersUSNPSugar

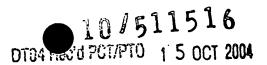
### LETTER OF TRANSMITTAL

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Please find enclosed for filing, the United States National Stage of International Patent Application No. PCT/US03/00331 entitled "A System To Produce Sugar From Plant Material", including the following documents:

- a Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) concerning filing under 35 U.S.C. §371 and Fee Calculation Sheet (Form PTO-1390, rev 10-2003) (2 pages) along with a check in the amount of \$.3528.00 payable to the Commissioner for Patents;
- 2. an Application Data Sheet (3 pages);
- 3. a Power of Attorney-Inventor of David O. Sanders (<u>/</u> page);
- 4. a Declaration For Patent Application of David O. Sanders (3 pages);
- 5. an Assignment of Patent Rights of David O. Sanders to CO2 Solutions, LLC (4 pages) along with a Recordation Cover Sheet (1 page);
- 6. a Power of Attorney of the assignee CO2 Solutions, LLC ( / page);



- 7. a Preliminary Amendment ( 4 pages);
- 8. a copy of the specification as originally filed in the PCT (69 pages) without the addition of any new matter;
- 9. a copy of the drawings as originally filed in the PCT (// sheets) without the addition of any new matter;
- 10. an Information Disclosure Citation ( / page) with copies of cited references not already submitted in the parent application;
- 11. a copy of the International Preliminary Examination Report (4 pages);
- 12. this firm Letter of Transmittal (3 pages);
- 13. Express Mail Certificates for each document; and
- 14. a Postcard Receipt for return to the undersigned.

#### Please note:

This application is the United States National Stage of International Patent Cooperation Treaty Patent Application No. PCT/US03/00331, filed January 6, 2003, which is a continuation of United States Patent Application 10/123,120 filed April 15, 2002 now issued as United States Patent No. 6,656,287 on December 2, 2003, and claims the benefit of United States Provisional Patent Application No. 60/403,594, filed August 13, 2002.

All right title and interest in this United States application and in PCT/US03/00331, filed January 6, 2003, and in United States Patent Application 10/123,120, filed April 15, 2002, now issued as United States Patent No. 6,656,287, on December 2, 2003, and in United States Provisional Patent Application No. 60/403,594, filed August 13, 2002, is owned in the entirety by CO2 Solutions, LLC.

I have this <u>15</u> th day of October, 2004, either myself personally, or through my direction of staff at this office, deposited all of the items listed in this Letter of Transmittal with the United States Postal Service as Express Mail, postage prepaid, in an envelope addressed to:

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Please process the enclosed United States National Stage patent application and return the enclosed postcard receipt.



# Direct all correspondence to:

CR MILES, P.C. 204 Walnut Street, Suite J Fort Collins, CO 80524

Dated this **45** day of October, 2004.

Respectfully Submitted,

CR MILES, P.C

By:

Crafg R. Miles
ATTORNEY FOR APPLICANTS

PTO No. 45,954

204 Walnut Street, Suite J Fort Collins, CO 80524 (970) 492-0000 telephone

(970) 492-0003 facsimile

FORM PTO-1390 2003) U.S. DEPARTMENT OF	COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY 'S DOCKET NUMBER					
TRANSMITTAL LETTER TO THE UNITED STATES							
		SandersUSNPSugar					
DESIGNATED/ELECTED OFFI		U.S. APPLICATION NO. (If known, see 37 CFR 1.5					
(DO/EO/US)CONCERNING A F	FILING UNDER 35 U.S.C.	10/511516					
371							
INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED					
PCT/US03/00331	January 6, 2003	April 15, 2002					
TITLE OF INVENTION							
A System To Produce Sugar From Plant Material							
APPLICANT(S) FOR DO/EO/US: David O. Sanders							
1		US) the following items and other information:					
1.  This is a <b>FIRST</b> submission of items	concerning a filing under 35 U.S.C. 371						
2. This is a SECOND or SUBSEQUEN	T submission of items concerning a filing	ng under 35 U.S.C. 371.					
3 ☐ This is an express request to begin na	tional examination procedures (35 U.S.C	C. 371(f)). The submission must include items					
(5), (6), (9) and (21) indicated below.							
4.   The US has been elected (Article 31).							
5. 🛛 A copy of the International Application	on as filed (35 U.S.C. 371(c)(2))						
a. 🛛 is attached hereto (required o	only if not communicated by the Internat	ional Bureau).					
b. 🛛 has been communicated by the	he International Bureau.						
c. is not required, as the applica	ation was filed in the United States Rece	iving Office (RO/US).					
6. An English language translation of the	International Application as filed (35 U.	S.C. 371(c)(2)).					
a. 🛛 is attached hereto.	•						
b. has been previously submitted under 35 U.S.C. 145(d)(4).							
7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).							
a. are attached hereto (required only if not communicated by the International Bureau).							
b. have been communicated by	the International Bureau.						
c.  have not been made; howeve	r, the time limit for making such amend	ments has NOT expired.					
d. A have not been made and will not be made.							
8.	e amendments to the claims under PCT	Article 19 (35 U.S.C. 371 (c)(3)).					
9. An oath or declaration of the inventor	r(s) (35 U.S.C. 371(c)(4)).						
10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36							
(35 U.S.C. 371(c)(5)).							
Items 11 to 20 below concern document(s) or information included:							
11. 🛛 An Information Disclosure Statement							
12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.							
13. A preliminary amendment.							
14. ☑ An Application Data Sheet under 37 CFR 1.76.							
15. A substitute specification.							
16. A power of attorney of David O. Sanders.							
17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.							
18. A second copy of the published international application under 35 U.S.C. 154(d)(4).							
19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).							
20. Other items or information: a power of attorney of CO2 Solutions, LLC; a copy of the International Preliminary Examination							
Report; a firm Letter of Transmittal; a Fee Calculation Sheet and a check in the amount of \$3528.00; Express Mail Certificates							
for document; and a Postcard Receipt.							

U.S. APPLICATION NO. (if I		INTERNATIONAL APPLICATION N	₹O.:	ATTORNEY'S DOCKET NUMBER:		
10/5	11516	PCT/US03/00331		SandersUSNPSugar	SandersUSNPSugar	
21. ☑ The following fees are submitted:			CALCULATIONS PTO U	CALCULATIONS PTO USE ONLY		
BASIC NATIONAL FI		1)-(5):				
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO\$1080.00			,			
Neither international preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO\$920.00			)			
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO\$770.00						
International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)			)			
International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4)						
ENTER APPROPRIATE BASIC FEE AMOUNT =			\$100.00			
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest priority date (37 CFR 1.492(e)).				\$0.00		
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$		
Total claims	173- 20 =	153	x \$18.00	\$2754.00		
Independent claims	7 - 3 =	4	x \$86.00	\$344.00		
MULTIPLE DEPENDEN	√T CLAIM(S) (if applic	cable)	+ \$290.00	\$290.00		
	TOT	AL OF ABOVE CALCU	JLATIONS =	\$3488.00		
Applicant claims smal are reduced by 1/2.		CFR 1.27. The fees indicate				
			UBTOTAL =	\$3488.00		
Processing fee of \$130.00 from the earliest claimed		lish translation later than 3 .492(f)).	30 months	\$		
	· · · · · · · · · · · · · · · · · · ·	TOTAL NATIO		\$		
		FR 1.21(h)). The assignment	ent must be			
accompanied by an appro	priate cover sheet (37 C	CFR 3.28, 3.31). \$40.00 pe		\$40.00		
		TOTAL FEES EN	NCLOSED =	\$3528.00		
				Amout to be refunded:	\$	
				Charged:	\$	
a. ☑ A check in the amount of \$3528.00 to cover the above fees is enclosed.  b. ☐ Please charge my Deposit Account No. in the amount of \$ to cover the above fees.						
A duplicate copy of this sheet is enclosed.						
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit anyoverpayment to Deposit Account No.  A duplicate copy of this sheet is enclosed.						
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit cardinformation should not be included on this form. Provide credit card information and authorization on PTO-2038.						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.						
be filed and granted to restore the application to pending status.  SEND ALL CORRESPONDENCE TO:  SIGNATURE:						
		NAN	ИЕ: Craig Mile	es I		
REGISTRATION NUMBER:45,954						

10/511516

DT04 Rec'd PCT/PTO 1 5 OCT 2004

### UNITED STATES PATENT AND TRADEMARK OFFICE

Title:

A System To Produce Sugar From Plant Material

Inventor:

David O. Sanders

**Application Number:** 

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October 15, 2004

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SandersUSNPSugar

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Dated this /5 day of October, 2004.